H. Monschel

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NOV 29 2000

TECH CENTER 1600/2900

ENTERED

DATE: 11/16/2000

TIME: 19:13:40

SEQUENCE LISTING

(B) LOCATION: 31..1491

(A) NAME/KEY: mat_peptide

(ix) FEATURE:

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/446,415

Output Set: N:\CRF3\11162000\I446415.raw

Input Set : A:\11034W01.SEQ.txt

```
4 (1) GENERAL INFORMATION:
             (i) APPLICANT: Beamer, Lesa J., Carroll, Stephen F., Eisenber, David
      6
             (ii) TITLE OF INVENTION: Bactericidal/Permeability:Increasing Protein:
      8
                                      Crystallization, X-Ray Diffraction; Three-Dimensional Structure
                                      Determination, Rational Drug Design and Molecular Modeling of
     1.0
     1.1.
                                      Related Proteins
           (iii) NUMBER OF SEQUENCES: 2
     13
     15
             (iv) CORRESPONDENCE ADDRESS:
     1.6
                   (A) ADDRESSEE: McAndrews, Held & Malloy
                   (B) STREET: 500 West Madison, 34th Floor
     17
     1.8
                   (C) CITY: Chicago
     19
                   (D) STATE: Illinois
                   (E) COUNTRY: United States of America
     20
     21.
                   (F) ZIP: 60661
     23
             (V) COMPUTER READABLE FORM:
     24
                   (A) MEDIUM TYPE: Floppy disk
                   (B) COMPUTER: IBM PC compatible
                   (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     26
     27
                   (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
     29
            (vi) CURRENT APPLICATION DATA:
     30
                   (A) APPLICATION NUMBER: US/09/446,415
                   (B) FILING DATE: 19-Jul-2000
C--> 31
                   (C) CLASSIFICATION:
     37
     34
           (vii) PRIOR APPLICATION DATA:
     35
                   (A) APPLICATION NUMBER:
     36
                   (B) FILING DATE:
          (viii) ATTORNEY/AGENT INFORMATION:
     39
                   (A) NAME: McNicholas, Janet M.
     40
     41
                   (B) REGISTRATION NUMBER: 32,918
                   (C) REFERENCE/DOCKET NUMBER: 11034US01;100-248
     42
     45
            (ix) TELECOMMUNICATION INFORMATION:
                   (A) TELEPHONE: 312/707-8889
     46
                   (B) TELEFAX: 312/707-9155
     47
     48
                   (C) TELEX:
     51 (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
     53
     54
                   (A) LENGTH: 1813 base pairs
     55
                   (B) TYPE: nucleic acid
     56
                  (C) STRANDEDNESS: single
     57
                  (D) TOPOLOGY: Linear
            (i.i) MOLECULE TYPE: CDNA
     59
     62
            (ix) FEATURE:
                  (A) NAME/KEY: CDS
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11/16/00

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/446,415

DATE: 11/16/2000 TIME: 19:13:40

Input Set : A:\11034W01.SEQ.txt
Output Set: N:\CRF3\11162000\1446415.raw

68 (B) LOCATION: 1241491														
70 (ix) FEATURE:														
71 (A) NAME/KEY: misc_feature														
73 (D) OTHER INFORMATION: "rBPI" 76 (xi) SEQUENCE DESCRIPTION: SEQ 1D NO: 1:														
78 CAGGCCTTGA GGTTTTGGCA GCTCTGGAGG ATG AGA GAG AAC ATG GCC AGG GGC	54													
79 Met Arg Glu Asn Met Ala Arg Gly	J 1													
80 -31 -30 -25														
82 CCT TGC AAC GCG CCG AGA TGG GTG TCC CTG ATG GTG CTC GTC GCC ATA	102													
83 Pro Cys Asn Ala Pro Arg Trp Val Ser Leu Met Val Leu Val Ala Ile														
84 -20 -15 -10														
86 GGC ACC GCC GTG ACA GCG GCC GTC AAC CCT GGC GTC GTG GTC AGG ATC	150													
87 Gly Thr Ala Val Thr Ala Ala Val Asn Pro Gly Val Val Arg 11e														
88 -5 1 5	400													
90 TCC CAG AAG GGC CTG GAC TAC GCC AGC CAG GGG ACG GCC GCT CTG	198													
91 Ser Gln Lys Gly Leu Asp Tyr Ala Ser Gln Gln Gly Thr Ala Ala Leu 92 10 15 20 25														
94 CAG AAG GAG CTG AAG AGG ATC AAG ATT CCT GAC TAC TCA GAC AGC TTT	246													
95 Gln Lys Glu Leu Lys Arg Ile Lys Ile Pro Asp Tyr Ser Asp Ser Phe	240													
96 30 35 40														
98 AAG ATC AAG CAT CTT GGG AAG GGG CAT TAT AGC TTC TAC AGC ATG GAC	294													
99 Lys Ile Lys His Leu Gly Lys Gly His Tyr Ser Phe Tyr Ser Met Asp														
1.00 45 50 55														
102 ATC CGT GAA TTC CAG CTT CCC AGT TCC CAG ATA AGC ATG GTG CCC AAT	342													
103 Ile Arg Glu Phe Gln Leu Pro Ser Ser Gln Ile Ser Met Val Pro Asn														
104 60 65 70														
106 GTG GGC CTT AAG TTC TCC ATC AGC AAC GCC AAT ATC AAG ATC AGC GGG	390													
107 Val Gly Leu Lys Phe Ser Ile Ser Asn Ala Asn Ile Lys Ile Ser Gly														
108 75 80 85 110 AAA TGG AAG GCA CAA AAG AGA TTC TTA AAA ATG AGC GGC AAT TTT GAC	438													
Ill Lys Trp Lys Ala Gln Lys Arg Phe Leu Lys Met Ser Gly Asn Phe Asp	430													
1.1.2 90 95 1.00 1.05														
114 CTG AGC ATA GAA GGC ATG TCC ATT TCG GCT GAT CTG AAG CTG GGC AGT	486													
115 Leu Ser Ile Glu Gly Met Ser Ile Ser Ala Asp Leu Lys Leu Gly Ser														
1.16 1.10 1.15 1.20														
118 AAC CCC ACG TCA GGC AAG CCC ACC ATC ACC TGC TCC AGC TGC AGC AGC	534													
119 Asn Pro Thr Ser Gly Lys Pro Thr Ile Thr Cys Ser Ser Cys Ser Ser														
120 125 130 135														
122 CAC ATC AAC AGT GTC CAC GTG CAC ATC TCA AAG AGC AAA GTC GGG TGG	582													
123 His Ile Asn Ser Val His Val His Ile Ser Lys Ser Lys Val Gly Trp														
124 140 145 150														
126 CTG ATC CAA CTC TTC CAC AAA AAA ATT GAG TCT GCG CTT CGA AAC AAG	630													
127 Leu Ile Gln Leu Phe His Lys Lys Ile Glu Ser Ala Leu Arg Asn Lys 128 155 160 165														
130 ATG AAC AGC CAG GTC TGC GAG AAA GTG ACC AAT TCT GTA TCC TCC AAG	678													
131 Met Asn Ser Gln Val Cys Glu Lys Val Thr Asn Ser Val Ser Ser Lys	070													
132 170 175 180 185														
1.34 CTG CAA CCT TAT TTC CAG ACT CTG CCA GTA ATG ACC AAA ATA GAT TCT	726													
135 Leu Gln Pro Tyr Phe Gln Thr Leu Pro Val Met Thr Lys Ile Asp Ser	•													

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PATENT APPLICATION: US/09/446,415

DATE: 11/16/2000 TIME: 19:13:40

Input Set : $A:\11034W01.SEQ.txt$

Output Set: N:\CRF3\11162000\1446415.raw

136					190					195					200		
								CTG									774
	Val	Ala	Gly		Asn	Tyr	Glγ	Leu		Ala	Pro	Pro	Ala		Thr	Ala	
140				205					210					21.5			
								AAG									822
	Glu	Thr		Asp	Val.	GIn	Met	Lys	C.l y	G I, u	Phe	Tyr		G.l.u	Asn	His	
144			220					225					230				
								CCA									870
	His		Pro	$_{\text{Pro}}$	Pro	Phe		Pro	5.co	۷a.l	Met		Phe	Pro	Ala	A.l.a	
148		235					240					245					
								GGC									918
		Asp	Arg	Met	Val		Leu	Gly	Leu	Ser		Tyr	Phe	Phe	Asn		
	250					255					260					265	
								GCT									966
	Ala	GTA	Leu	Val		Gln	GLu	Λl.a	Gly		Leu	Lys	Met	Thr		Arg	
1.56					270					275					280		
								TCC									1014
	Asp	Asp	Met		Pro	Lys	Glu	ser		Phe	Arg	Leu	Thr		Lys	Phe	
1.60				285					290					295			
								GTG									1062
	Phe	GTÄ		Phe	Leu	Pro	G.L.u	Val	Ala	ГЛЯ	Lys	Phe		Asn	Met	Lys	
1.64			300					305					31.0				
								TCC									1110
	11e		11e	HIS	Val	ser		Ser	Thr	Pro	Pro		Leu	Ser	Val	GIn	
168		315					320					325					
								CCT									1158
		Tur	GIÀ	ren	Tn:c		Tyr	Pro	ALa	val.	-	Val	Gln	Ala	Phe		
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								GCT									1206
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176	2.712	3.0m	aam	mac	350	030	(1m/)	100		355	ma c		140	amm	360	41413	1054
								AGC									1.254
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	ccc	ccc	-	cee	com	(''' ''' ''	mme	CTG	CAC	CAM	v mc.	A mes		ma C	A IDID	CIDA	1350
								Leu									1330
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	ccc		Cum	awa	cmc	ccc		GTT	447	CAC	447		CAC	A 71 A	ccc	mm _C	1398
								Val.									1390
192		116	Lieu	VUL	II C III	415	m.r.g	V CI .I.	ASII	G.L.u	420	пец	(3 1, 11	цуэ	GLY	425	
		CTC	ccc	ACG	cce		AGA	GTC	CAG	CTC		AAC	GTA	anc	CMI		1.446
								Val									1.440
196	E. T. O.	ne u	1.10	v HT	430	A J. Cl	ur d	v CL.L	OTH	435	J. Y .L	Mail	v CI .L	va ı.	440	ULII	
	CCT	CAC	CAG	AAC		CTC	CTG	TTC	COT		CAC	Cum	GTC	ሞልጥ			1491
								Phe									7477
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RAW SEQUENCE LISTING DATE: 11/16/2000 PATENT APPLICATION: US/09/446,415 DATE: 19:13:40

Input Set : A:\11034W01.SEQ.txt
Output Set: N:\CRF3\11162000\1446415.raw

219 (B) TYPE: amino acid 220 (D) TOPOLOGY: linear 221 (ii) MOLECULE TYPE: protein 222 (iii) MOLECULE TYPE: protein 223 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2: 226 Met Arg Glu Asn Met Ala Arg Gly Pro Cys Asn Ala Pro Arg Trp Val 227 -31 -30 -25 -20 229 Ser Leu Net Val Leu Val Ala IIe Gly Thr Ala Val Thr Ala Ala Val 230 -15 -10 -5 1 232 Asn Pro Gly Val Val Val Arg Ile Ser Gln Lys Gly Leu Asp Tyr Ala 233 5 10 15 235 Ser Gln Gln Gly Thr Ala Ala Leu Gln Lys Glu Leu Lys Arg Ile Lys 236 20 25 30 238 Ile Pro Asp Tyr Ser Asp Ser Phe Lys Ile Lys His Leu Gly Lys Gly 239 35 40 45 241 His Tyr Ser Phe Tyr Ser Met Asp Ile Arg Glu Phe Gln Leu Pro Ser 242 50 55 60 65 244 Ser Gln Ile Ser Met Val Pro Asn Val Gly Leu Lys Phe Ser Ile Ser 245 70 75 80 246 85 90 95 250 Leu Lys Met Ser Gly Asn Phe Asp Leu Ser Ile Glu Gly Met Ser Ile 251 100 105 253 Ser Ala Asp Leu Lys Leu Gly Ser Asn Pro Thr Ser Gly Lys Pro Thr 254 115 120 255 Ile Thr Cys Ser Ser Cys Ser Ser B His Ile Asn Ser Val His Val His 257 130 135 135 140 145 259 Ile Ser Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys Lys 260 150 150 170 175 261 Ile Glu Ser Ala Leu Arg Asn Lys Met Asn Ser Gln Val Cys Glu Lys 262 116 Glu Ser Ala Leu Arg Asn Lys Met Asn Ser Gln Val Cys Glu Lys 263 165 170 175 264 Val Thr Asn Ser Val Ser Ser Lys Leu Gln Pro Tyr Phe Gln Thr Leu 265 126 127 127 127 128 129 129 129 129 129 125 265 Val Thr Asn Ser Val Ser Ser Lys Leu Gln Pro Tyr Phe Gln Thr Leu 266 180 180 185 170 175 272 210 20 20 205 205 273 Val Ala Pro Pro Ala Thr Thr Ala Glu Thr Leu Asp Val Gln Met Lys 272 210 225 220 225 274 Val Ala Pro Pro Ala Thr Thr Ala Glu Thr Leu Asp Val Gln Met Lys 275 210 225 220 225 276 177 Pro Val Met Glu Phe Pro Ala Ala His Asp Arg Met Val Tyr Leu Gly 277 Pro Val Met Glu Phe Pro Ala Ala His Asp Arg Met Val Tyr Leu Gly 278 275 275 275	204 206 208 210 212 215 217 218	8 (A) LENGTH: 487 amino acids														155 161 167 173 179 181	1 1 1 1		
222 (ii) MOLECULE TYPE: protein 224 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2: 226 Met Arg Glu Asn Met Ala Arg Gly Pro Cys Asn Ala Pro Arg Trp Val 227 -31 -30 -25 -20 229 Ser Leu Met Val Leu Val Ala Ile Gly Thr Ala Val Thr Ala Ala Val 230 -15 -10 -5 1 232 Asn Pro Gly Val Val Val Val Arg Ile Ser Gln Lys Gly Leu Asp Tyr Ala 233 -5 10 15 235 Ser Gln Gln Gly Thr Ala Ala Leu Gln Lys Glu Leu Lys Arg Ile Lys 236 20 25 30 238 Ile Pro Asp Tyr Ser Asp Ser Phe Lys Ile Lys His Leu Gly Lys Gly 241 His Tyr Ser Phe Tyr Ser Met Asp Ile Arg Glu Phe Gln Leu Pro Ser 242 50 55 60 65 244 Ser Gln Ile Ser Met Val Pro Asn Val Gly Leu Lys Phe Ser Ile Ser 244 Ser Gln Ile Ser Met Val Pro Asn Val Gly Leu Lys Phe Ser Ile Ser 245 70 75 80 246 Asn Ala Asn Ile Lys Ile Ser Gly Lys Trp Lys Ala Gln Lys Arg Phe 256 Leu Lys Met Ser Gly Asn Phe Asp Leu Ser Ile Glu Gly Met Ser Ile 257 130 150 160 258 Ser Ala Asp Leu Lys Leu Gly Ser Asn Pro Thr Ser Gly Lys Pro Thr 254 115 120 155 160 255 16 Thr Cys Ser Ser Cys Ser Ser His Ile Asn Ser Val His Val His 256 11e Thr Cys Ser Ser Cys Ser Ser His Ile Asn Ser Val His Val His 257 130 150 150 150 160 262 Ile Glu Ser Ala Leu Arg Asn Lys Met Asn Ser Gln Val Cys Glu Lys 263 165 170 175 265 Val Thr Asn Ser Val Ser Ser Lys Leu Gly Trp Leu Ile Gln Pro Tyr Phe Gln Thr Leu 266 1780 179 270 281 Ala Pro Pro Ala Ala His Asn Pro Pro Pro Pro Phe Ala Pro 271 Val Ala Pro Pro Ala Ala His Asn Pro Pro Pro Pro Phe Ala Pro 272 210 225 225 274 Gly Glu Phe Tyr Ser Glu Asn His His Asn Pro Pro Pro Phe Ala Pro 275 220 225 276 Cly Glu Phe Tyr Ser Glu Asn His His Asn Pro Pro Pro Phe Ala Pro 277 Pro Val Met Glu Phe Pro Ala Ala His Asn Arg Met Val Tyr Leu Gly																			
224																			
226 Met Arg Glu Asn Met Ala Arg Gly Pro Cys Asn Ala Pro Arg Trp Val				•				•			TIS 11								
227 -31 -30		Not		-										Dwo	7	m see	Unl		
Ser Leu Met Val Leu Val Ala The Gly Thr Ala Val Thr Ala Ala Val Val				GIU	ASII	Met	A.i.d		_	PEO	Cys	ASII		Pro	Arg	тrр	Va.L		
230 -15				Mat	M+1	Lou	U a I			C* 1 **	mb s	43.5		m). ~	λ 1 n	A 1 4	Vo.1		
232 Asn Pro Gly Val Val Val Arg Fle Ser Gln Lys Gly Leu Asp Tyr Ala 233				Mec	V CI .I.	ren		24.I, G	11.6	G.I. y	THI		val	1111.	A.I. a	A.J. a			
233				cly	Val	17 a 1		λεα	rlo	car	Cln		Cly	Lon	Acn	mv v			
235 Ser Gln Gln Gly Thr Ala Ala Leu Gln Lys Glu Leu Lys Arg Ile Lys 236 20		Mon	FIO	оту		va.i.	val	ALG	116		OIN	ьys	оту	Lea	-	-	ALa		
236		Ser	Gln	Gln		Thr	Δla	Λla	Lau		Tue	Glu	rωυ	Tue			Lve		
238 The Pro Asp Tyr Ser Asp Ser Phe Lys The Lys His Leu Gly Lys Gly		JUL	(3111		OLY	1111,	r i d	nic			піз	GIU	пеа	-	nrg	1 1.6	цуз		
239		Tle	Pro		Tyr	Ser	Asn	Ser			TIE	LVQ	Hic		GTV	LVC	Gly		
241 His Tyr Ser Phe Tyr Ser Met Asp Tle Arg Glu Phe Gln Leu Pro Ser 242 50		1.1.0		13.15 P		.,с.	wab		F 11G	Liy is	1.10	Try 5		1365 (1	СТУ	ny 5	(13. y		
242 50	-	His		Ser	Phe	Tyr	Ser		Asn	TIE	Ara	GIn		Gln	1.60	Pro	Ser		
244 Ser Gln Ile Ser Met Val Pro Asn Val Gly Leu Lys Phe Ser Ile Ser 245			- 1 -			- , -		1100	· · · · · ·	110	9		1 110	0111	13011	110			
245 70 70 75 75 75 80 247 Asn Ala Asn Asn The Lys The Ser Gly Lys Trp Lys Ala Gln Lys Arg Phe 248 85 80 85 90 90 95 250 Leu Lys Met Ser Gly Asn Phe Asp Ser The Glu Gly Met Ser The 251 100 105 110 110 253 Ser Ala Asp Leu Lys Leu Gly Ser Asn Pro Thr Ser Gly Lys Pro Thr 254 115 120 120 120 125 255 The Thr Cys Ser Ser Cys Ser Ser His The Asn Ser Val His Val His 257 130 135 135 135 140 140 145 259 The Ser Lys Ser Lys Val Gly Trp Leu The Gln Leu Phe His Lys Lys 260 150 150 150 155 160 262 The Glu Ser Ala Leu Arg Asn Lys Met Asn Ser Gln Val Cys Glu Lys 263 165 165 170 180 180 264 Pro Val Met Thr Lys The Asp Ser Lys Leu Gln Pro Tyr Phe Gln Thr Leu 266 180 180 180 180 180 271 Val Ala Pro Pro Ala Thr Ala Glu Thr Leu Asp Asn Pro Pro Pro Pro Pro Pro Pro Pro 271 Val Ala Pro Pro Ala Thr Thr Ala Glu Thr Leu Asp Asn Pro Pro Pro Pro Pro Pro Pro Pro Pro 272 270 270 270 270 275			Gln	He	Ser	Met.		Pro	Asn	Val	Gly		Lvs	Phe	Ser	Lle			
248											-						., 0		
248	247	Asn	Al.a	Asn	I l.e	Lys	I.l.e	Ser	Gly	Lys	Trp	Lys	λla	Gln	Lys	Arq	Phe		
251						-			•		-	•				•			
251	250	Leu	Lys	Met	Ser	Gly	Asn	Phe	Asp	Leu	Ser	Ile	Glu	Gly	Met	Ser	Ile		
254	251			1.00					105					11.0					
256	253	ser	A l.a	Λsp	Leu	Lys	Leu	GLy	ser	Asn	Pro	Thr	Ser	Gly	Lys	Pro	Thr		
257 130	254		115					120					1.25						
259 Ile Ser Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys Lys Lys 260			Thr	Cys	ser	Ser	Cys	ser	Ser	His	Ile	Asn	ser	Val.	His	Val	His		
260																			
262		He	Ser	Lys	ser		Val.	GIy	Trp	Leu		Gl.n	Leu	Phe	His	Lys	Lys		
263																			
265 Val Thr Asn Ser Val Ser Ser Lys Leu Gln Pro Tyr Phe Gln Thr Leu 180		Tle	Glu	ser		Leu	Arg	Asn	Lys		Asn	ser	Gln	Val		Glu	Lys		
266 Pro Val Met Thr Lys Ile Asp Ser Val Ala Gly Ile Asn Tyr Gly Leu 269 195 200 205 205 271 Val Ala Pro Pro Ala Thr Thr Ala Glu Thr Leu Asp Val Gln Met Lys 272 210 215 225 274 Gly Glu Phe Tyr Ser Glu Asn His His Asn Pro Pro Pro Pro Phe Ala Pro 275 230 230 235 240 277 Pro Val Met Glu Phe Pro Ala Ala His Asp Arg Met Val Tyr Leu Gly																_			
268 Pro Val Met Thr Lys Ile Asp Ser Val Ala Gly Ile Asp Tyr Gly Leu 269		Va I.	Thr		ser	Va.l.	ser	Ser	-	Leu	Gln	Pro	Tyr		GIn	Thr	Leu		
269		_			m1		~ 3	_							_		_		
271 Val Ala Pro Pro Ala Thr Thr Ala Glu Thr Leu Asp Val Gln Met Lys 272 210 215 220 225 274 Gly Glu Phe Tyr Ser Glu Asn His His Asn Pro Pro Pro Phe Ala Pro 275 230 235 240 277 Pro Val Met Glu Phe Pro Ala Ala His Asp Arg Met Val Tyr Leu Gly		Pro		мет	TILE	ьys	TTE	_	ser	val	Ala	GLY		Asn	Туr	G.I.Y	ren		
272 210 225 220 225 274 Gly Glu Phe Tyr Ser Glu Asn His His Asn Pro Pro Pro Phe Ala Pro 275 230 235 240 277 Pro Val Met Glu Phe Pro Ala Ala His Asp Arg Met Val Tyr Leu Gly		Ma I		Dan	D.o.o.	* 1 =	ml			<i>(</i> 11	m1			**- 1	41	14 - 1.	*		
274 Gly Glu Phe Tyr Ser Glu Asn His His Asn Pro Pro Pro Phe Ala Pro 275 230 235 240 277 Pro Val Met Glu Phe Pro Ala Ala His Asp Arg Met Val Tyr Leu Gly			Ald	FTO	PLO	WIG		THE	ALA	(a T II	ınr		asp	val	GIN	мес	-		
275 230 235 240 277 Pro Val Met Glu Phe Pro Ala Ala His Asp Arg Met Val Tyr Leu Gly			Gle	Dhe	Ture	cor		Agn	uso	uic	7.00		Dre	Dre	Dhe	7 T -			
277 Pro Val Met Glu Phe Pro Ala Ala His Asp Arg Met Val Tyr Leu Gly		O.T. A	OTU	rne	LIL		GIU	MSII	птъ	ита		PLLO	PLO	PT 0	FIIG		PLO		
		Pro	Val	Me1	Glu		Dro	Δla	Ala	ніс		λης	Mot	17 m 1.	Tur		Cly		
			7 44.4.				0	. 1,1. (4		250	p	9		· u.t.	255	AJC-U	O11		



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280 Leu Ser Asp Tyr Phe Phe Asn Thr Ala Gly Leu Val Tyr Gln Glu Ala 281 260 265 270 283 Gly Val Leu Lys Met Thr Leu Arg Asp Asp Met The Pro Lys Glu Ser 284 275 280 285 286 Lys Phe Arg Leu Thr Thr Lys Phe Phe Gly Thr Phe Leu Pro Glu Val 287 290 295 300 305 289 Ala Lys Lys Phe Pro Asn Met Lys Ile Gln Ile His Val Ser Ala Ser 290 310 315 320 292 Thr Pro Pro His Leu Ser Val Gln Pro Thr Gly Leu Thr Phe Tyr Pro 293 335 295 Ala Val Asp Val Gln Ala Phe Ala Val Leu Pro Asn Ser Ser Leu Ala 296 340 345 350 298 Ser Leu Phe Leu Ile Gly Met His Thr Thr Gly Ser Met Glu Val Ser 299 355360365 301 Ala Glu Ser Asn Arg Leu Val Gly Glu Leu Lys Leu Asp Arg Leu Leu 302 370 375 380 380 304 Leu Glu Leu Lys His Ser Asn 1le Gly Pro Phe Pro Val Glu Leu Leu 305 390 395 400 307 Gln Asp Ile Met Asn Tyr Tle Val Pro Ile Leu Val Leu Pro Arg Val 308 405 410 415 310 Asn Glu Lys Leu Gln Lys Gly Phe Pro Leu Pro Thr Pro Ala Arg Val. 311 420 425 430 313 Gln Leu Tyr Asn Val Val Leu Gln Pro His Gln Asn Phe Leu Leu Phe 314 435 440 316 Gly Ala Asp Val Val Tyr Lys 317 450 455

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VERIFICATION SUMMARY
PATENT APPLICATION: US/09/446,415

DATE: 11/16/2000 TIME: 19:13:41

Input Set : A:\11034W01.SEQ.txt
Output Set: N:\CRF3\11162000\1446415.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:] L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]